(11)

EP 0 949 279 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: 13.09.2000 Bulletin 2000/37

(51) Int. Cl. 7:

C08F 10/00, C08F 4/643

(43) Date of publication A2: 13.10.1999 Bulletin 1999/41

(21) Application number: 99201940.6

(22) Date of filing: 27.01.1988

(84) Designated Contracting States: AT BE DE ES FR GB IT LU NL SE

(30) Priority: 30.01.1987 US 8800 22.12.1987 US 133480

(62) Application number of the earlier application in accordance with Art. 76 EPC: 91113752.9

(71) Applicant: Exxon Chemical Patents, Inc. Houston, Texas 77079 (US)

(72) Inventors:

, Turner, Howard William Campbell, California 95008 (US) , Hlatky, Gregory George Morrow, Ohio 45152 (US)

(74) Representative:
Veldhuizen, Albert Dirk Willem et al
Exxon Chemical Europe Inc.,
P.O.Box 105
1830 Machelen (BE)

(54) Process for the preparation of a polymeric product with a catalyst consisting of an ion pair

(57) Process for the preparation of a polymeric product by polymerising α -olefins, diolefins and/or acetylenically unsaturated monomers with a catalyst consisting of an ion pair comprising an anion of the general formula[BAr,Ar,2X,3X,4] wherein:

B is boron in a valence state of 3;

 \mbox{Ar}_1 and \mbox{Ar}_2 are the same or different aromatic or substituted aromatic hydrocarbon radicals containing from 6 to 20 carbon atoms, optionally linked to each other through a stable bridging group, wherein at least one of \mbox{Ar}_1 and \mbox{Ar}_2 is a fluoro- or fluorohydrocarbyl-substituted, naphthyl

or anthracenyl radical; and

 X_3 and X_4 are radicals selected, independently, from hydride radicals, halide radicals, with the proviso that only X_3 or X_4 will be halide at the same time, hydrocarbyl radicals containing from 1 to 20 carbon atoms, substituted hydrocarbyl radicals, wherein one or more of the hydrogen atoms is replaced by a halogen atom, containing from 1 to 20 carbon atoms, hydrocarbyl-substituted metal (organometalloid) radicals wherein each hydrocarbyl substitution contains from 1 to 20 carbon atoms and said metal is Group IV-A of the Periodic Table of Elements.



EUROPEAN SEARCH REPORT

Application Number EP 99 20 1940

Category	Citation of document with Inc of relevant passa		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)	
A	JORDAN R F ET AL: "POLYMERIZATION BY A DICYCLOPENTADIENYLZI COMPLEX" JOURNAL OF THE AMERI SOCIETY, US, AMERICAN WASHINGTON, DC, vol. 108, 1 January pages 7410-7411, XPO ISSN: 0002-7863 * page 7411, column	CATIONIC RCONIUM (IV) ALKYL CAN CHEMICAL CHEMICAL SOCIETY, 1986 (1986-01-01), 102019566		C08F10/00 C08F4/643	
				TECHNICAL FIELDS SEARCHED (Int.Ct.7)	
	The present search report has be	en drawn up for all claims			
Place of season THE HAGUE		Date of completion of the search 14 June 2000	Fic	Fischer, B	
X : parti Y : parti docu A : tech	ATEGORY OF CITED DOCUMENTS cularly relevant if taken alone cularly relevant if combined with another ment of the same category nological backgroundwritten disclosure	T: theory or princip E: earlier patent do after the fiting de D: document cited L: document cited i	le underlying the cument, but publi the in the application for other reasons	invertion ished on, or	